

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 29-Apr-2024 Revision Number 1

### 1. Identification

Product identifier

**Product Name** Quality Control Standard 27 in 5% HNO3, tr. HF

Other means of identification

Product Code(s) 5190-9418

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Reagents and Standards for Analytical Chemical Laboratory Use

**Restrictions on use**Not to be used for human or animal consumption

Details of the supplier of the safety data sheet

### **Supplier Address**

Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

E-mail pdl-msds\_author@agilent.com

Emergency telephone number

**Emergency Telephone** 

CHEMTREC®: 1-800-424-9300

# 2. Hazard(s) identification

### Classification

Classified according to OSHA.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Chronic aquatic toxicity	Category 1
Corrosive to metals	Category 1

### Hazards not otherwise classified (HNOC)

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Not applicable

#### **Label elements**

### Danger

#### Hazard statements

Classified according to OSHA.
Causes skin irritation
Causes serious eye damage
Very toxic to aquatic life with long lasting effects
May be corrosive to metals



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Keep only in original packaging Wear protective gloves/eye protection/face protection

### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse Absorb spillage to prevent material damage

### **Precautionary Statements - Storage**

Store in corrosion resistant container with a resistant inner liner

### Other information

Toxic to aquatic life.

## 3. Composition/information on ingredients

#### **Substance**

Not applicable.

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#### Mixture

**Chemical nature** 

aqueous solution.

Chemical name	CAS No.	Weight-%	Trade secret
Nitric Acid	7697-37-2	3 - <5	*
hydrofluoric acid	7664-39-3	0.1 - 1	*

#### Additional information

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

### 4. First-aid measures

#### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Do not rub affected area. Get immediate medical attention.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

### 5. Fire-fighting measures

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surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA.

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Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

# 8. Exposure controls/personal protection

### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Nitric Acid	Nitric Acid TWA: 2 ppm		IDLH: 25 ppm
7697-37-2	STEL: 4 ppm	TWA: 5 mg/m <sup>3</sup>	TWA: 2 ppm
		(vacated) TWA: 2 ppm	TWA: 5 mg/m <sup>3</sup>
		(vacated) TWA: 5 mg/m <sup>3</sup>	STEL: 4 ppm
		(vacated) STEL: 4 ppm	STEL: 10 mg/m <sup>3</sup>
		(vacated) STEL: 10 mg/m <sup>3</sup>	-
hydrofluoric acid	TWA: 0.5 ppm F	TWA: 3 ppm F	IDLH: 30 ppm
7664-39-3	S*	(vacated) TWA: 3 ppm F	Ceiling: 6 ppm 15 min
	Ceiling: 2 ppm F	(vacated) STEL: 6 ppm F	Ceiling: 5 mg/m <sup>3</sup> 15 min
			TWA: 3 ppm
			TWA: 2.5 mg/m <sup>3</sup>

### **Biological occupational exposure limits**

Chemical name	ACGIH
hydrofluoric acid	3 mg/g creatinine - urine (Fluoride) - prior to shift
7664-39-3	10 mg/g creatinine - urine (Fluoride) - end of shift

### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing

safety goggles.

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374. Wear protective Neoprene™ gloves. Polyvinyl

chloride (PVC). Wear suitable gloves. Impervious gloves.

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**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color colorless
Odor Odorless

Odor threshold No information available

Property Values Remarks • Method

No data available None known Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available Flash point None known **Evaporation rate** No data available None known Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known No data available Relative vapor density None known No data available Relative density None known Water solubility No data available None known No data available Solubility(ies) None known No data available None known **Partition coefficient Autoignition temperature** 460 °C / 860 °F None known **Decomposition temperature** None known

Kinematic viscosity

No data available

No data available

No data available

None known

No data available

None known

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information available

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Molecular weightNo information availableVOC contentNo information availableLiquid DensityNo information availableBulk densityNo information available

# 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

**Incompatible materials** Oxidizing agent. Strong acids. Strong bases.

Hazardous decomposition products None known based on information supplied.

### 11. Toxicological information

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

**Acute toxicity** 

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

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 ATEmix (oral)
 99,999.00 mg/kg

 ATEmix (dermal)
 99,999.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 99,999.00 mg/l

 ATEmix (inhalation-vapor)
 66.70 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric Acid	-	-	= 2500 ppm (Rat) 1 h
7697-37-2			ATE (vapours) = 2.65 mg/L
hydrofluoric acid 7664-39-3	-	-	= 0.79 mg/L (Rat)1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye

damage.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

**Interactive effects** No information available.

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# 12. Ecological information

**Ecotoxicity** 

Very toxic to aquatic life with long lasting effects.

	Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ī	hydrofluoric acid 7664-39-3	-	-	-	EC50: =270mg/L (48h, Daphnia species)

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Nitric Acid	-2.3
7697-37-2	
hydrofluoric acid	-1.4
7664-39-3	

Other adverse effects No information available.

### 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

# 14. Transport information

DOT

UN number or ID number UN3264

Extended proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid)

Transport hazard class(es) 8

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Packing group

Reportable Quantity (RQ) (Arsenic: RQ (kg)= 0.454, Lead: RQ (kg)= 4.54, Nitric Acid: RQ (kg)= 454.00) Arsenic:

RQ (lb)= 1, Lead: RQ (lb)= 10, Nitric Acid: RQ (lb)= 1000.00 Arsenic: RQ (kg)= 4540.00, Lead: RQ (kg)= 454.00, Nitric Acid: RQ (kg)= 10089.00

Arsenic: RQ (lb)= 10000.00, Lead: RQ (lb)= 1000.00, Nitric Acid: RQ (lb)= 22222.00

Reportable quantity (kg)

(calculated)

Reportable quantity (lbs)

(calculated)

**Special Provisions** IB3, T7, TP1, TP28

**DOT Marine Pollutant** 

Marine pollutant Lead, Silver

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid), 8, III,

Marine pollutant

**Emergency Response Guide** 

Number

154

TDG

**UN** number or ID number UN3264

**UN** proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid)

Transport hazard class(es) Ш **Packing group Special Provisions** 16 Marine pollutant Ρ

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid), 8, III

**MEX** 

**UN** number or ID number UN3264

**UN** proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid)

Transport hazard class(es) Packing group

Ш **Technical Name** Nitric Acid, hydrofluoric acid

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid), 8, III

**Special Provisions** 223, 274

IATA

**UN** number or ID number UN3264

**UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid)

Transport hazard class(es) Packing group

Ш

**Technical Name** Nitric Acid, hydrofluoric acid

UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid), 8, III Description

A3, A803 **Special Provisions** 

**ERG Code** 8L

IMDG

**UN number or ID number** UN3264

**UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid)

Transport hazard class(es) Packing group

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EmS-No.F-A, S-BSpecial Provisions223, 274Marine pollutantPMarine PollutantSilver

**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, hydrofluoric acid), 8, III,

Marine pollutant

### 15. Regulatory information

#### **International Inventories**

**TSCA** 

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity
			Designation
Nitric Acid	7697-37-2	Present	Active
hydrofluoric acid	7664-39-3	Present	Active

<sup>\*</sup>Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL
Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Nitric Acid - 7697-37-2	1.0
hydrofluoric acid - 7664-39-3	1.0

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances
Nitric Acid 7697-37-2	1000 lb	-	-	Х
hydrofluoric acid 7664-39-3	100 lb	-	-	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Nitric Acid 7697-37-2	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ
hydrofluoric acid 7664-39-3	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
vanadium pentoxide - 1314-62-1	Carcinogen
Beryllium Oxyacetate - 19049-40-2	Carcinogen
Lead - 7439-92-1	Carcinogen
	Developmental

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	Female Reproductive	
	Male Reproductive	
Nickel - 7440-02-0	Carcinogen	
Cadmium - 7440-43-9	Carcinogen	
	Developmental	
	Male Reproductive	
Cobalt - 7440-48-4	Carcinogen	

### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Nitric Acid 7697-37-2	Х	X	Х
hydrofluoric acid 7664-39-3	Х	X	X
Potassium nitrate 7757-79-1	Х	X	X
Selenium 7782-49-2	Х	Х	X
Ferric nitrate nonahydrate 7782-61-8	Х	X	X
Aluminium nitrate nonahydrate 7784-27-2	Х	-	Х
Chromium (III) nitrate nonahydrate 7789-02-8	Х	-	Х
Barium nitrate 10022-31-8	Х	Х	Х
Strontium nitrate 10042-76-9	Х	X	X
Boric acid 10043-35-3	Х	-	-
vanadium pentoxide 1314-62-1	Х	X	X
Magnesium nitrate hexahydrate 13446-18-9	Х	Х	X
Ammonium silicofluoride 16919-19-0	Х	Х	X
Manganese(II) nitrate hexahydrate 17141-63-8	Х	-	Х
Beryllium Oxyacetate 19049-40-2	Х	-	X
Calcium carbonate	Х	Х	X

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471-34-1			
Lead 7439-92-1	X	X	X
Molybdenum 7439-98-7	Х	X	Х
Nickel 7440-02-0	Х	Х	Х
Silver 7440-22-4	Х	Х	Х
Thallium 7440-28-0	Х	Х	Х
Titanium 7440-32-6	Х	-	-
Antimony 7440-36-0	Х	Х	Х
Arsenic 7440-38-2	Х	Х	Х
Cadmium 7440-43-9	Х	Х	Х
Cobalt 7440-48-4	Х	Х	Х
Copper 7440-50-8	Х	Х	Х
Zink (stabilized) 7440-66-6	X	X	Х

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPA Health hazards 3 Flammability 1 Instability 0 Special hazards - Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

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Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision Note No information available.

**Disclaimer** 

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